



Service Manual

Auto Washer

Model : DWF-750/752/800/802



DAEWOO ELECTRONICS CO., LTD.

Contents

1. SPECIFICATIONS	2
2. STRUCTURE OF THE WASHING MACHINE	3
3. FUNCTIONS OF THE CONTROL PANEL	4
4. WASHING PROCEDURE AND PROGRAM SELECTION	
FULL AUTOMATIC PROGRAM	5
RESERVED WASHING	7
PARTIAL PROCESS & COMBINATION	7
5. DIRECTIONS FOR INSTALLATION AND USE	
LOCATION OF WASHER	8
DRAIN SYSTEM	8
HOW TO CONNECT THE INLET HOSE	9
HOW TO CLEAN THE FILTER	10
6. FEATURE AND TECHNICAL EXPLANATION	
FEATURE OF THE WASHING MACHINE	11
WATER CURRENT TO ADJUST THE UNBALANCED LOAD	11
AUTOMATIC WATER SUPPLY SYSTEM	11
AUTOMATIC DRAINING TIME ADJUSTMENT	12
SOFTENER DISPENSER	13
AUTOMATIC UNBALANCE ADJUSTMENT	14
CIRCULATING-WATER	14
LINT FILTER	15
RESIDUAL TIME DISPLAY	15
DRAIN MOTOR	15
GEAR MECHANISM ASS'Y	16
PRINCIPLE OF BUBBLE GENERATOR	16
FUNCTIONAL PRINCIPLE OF BUBBLE WASHING MACHINE	17
7. DIRECTIONS FOR DISASSEMBLY AND ADJUSTMENT	
GEAR MECHANISM ASS'Y REPLACEMENT	18
DRAIN MOTOR AND VALVE	19
BRAKE ADJUSTMENT	19
8. TROUBLE SHOOTING GUIDE	
CONCERNING WATER SUPPLY	20
CONCERNING WASHING	21
CONCERNING DRAINING	22
CONCERNING SPINNING	23
CONCERNING OPERATION	24
9. PRESENTATION OF THE P.C.B ASS'Y	25
APPENDIX	
WIRING DIAGRAM	26
PARTS DIAGRAM & PARTS LIST	30
CIRCUIT DIAGRAM	39

1. SPECIFICATIONS

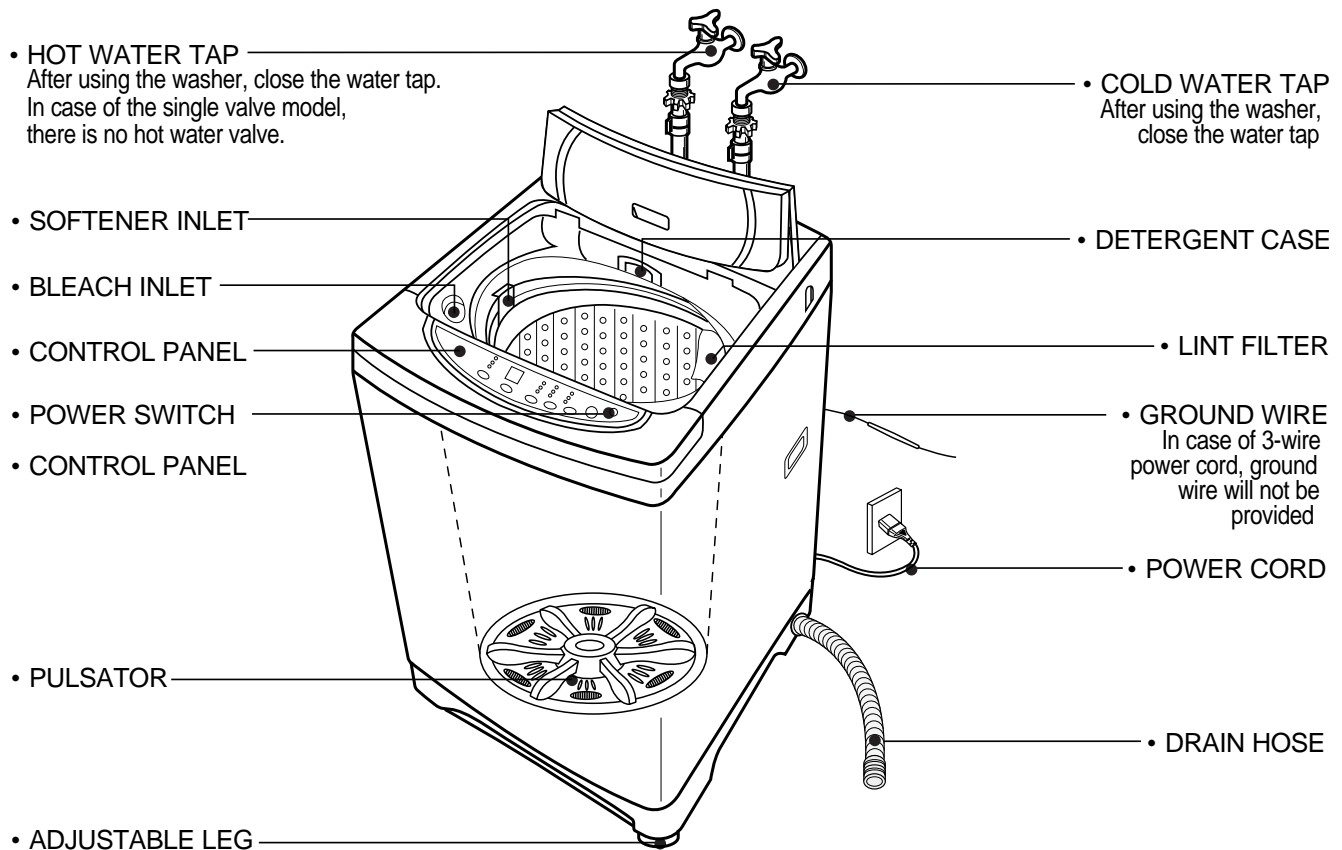
NO.	ITEM		DWF-750	DWF-752	DWF-800	DWF-802
1	POWER SOURCE		AVAILABLE IN ALL LOCAL AC VOLTAGE			
2	POWER	50Hz	250W			
	CONSUMPTION	60Hz	300W			
3	MACHINE	NET	27		27.5	
	WEIGHT	GROSS	30.5		31	
4	DIMENSION (WXHXD)		525X858X535	525X948X535	525X858X535	525X948X535
5	MATERIAL OF INTERNAL TUB		PLASTIC		STAINLESS STEEL	
6	WASHING PROGRAM		FULL AUTOMATIC 6 PROGRAMS (FUZZY, FUZZY+SOAK, HEAVY, HEAVY+SOAK, SPEEDY, WOOL/SUIT)			
7	WATER LEVEL SELECTOR		HIGH(55ℓ), MID(45ℓ), LOW(31ℓ)			
8	OPERATING WATER PRESSURE		0.3kgf/cm ² ~8kgf/cm ² (2.94 N/cm ² ~78.4N/cm ²)			
9	MAXIMUM MASS OF TEXTILE		5.5kg		6.0kg	
10	REVOLUTION PER MINUTE	WASH	125~145(50Hz), 130~150(60Hz)			
		SPIN	710~725(50Hz), 760~785(60Hz)			
		SUIT	50(50Hz), 60(60Hz)			
11	WATER CONSUMPTION		APPROX. 130ℓ/CYCLE			
12	WATER LEVEL CONTROL		ELECTRONICAL SENSOR			
13	ANTI NOISE PLATE		OPTION			
14	GEAR MECHANISM ASS'Y		SPUR GEAR			
15	LINT FILTER		O			
16	SOFTENER INLET		O			
17	ALARM SIGNAL		O			
18	AUTO. WATER SUPPLY		O			
19	FUNCTION FOR BUBBLE		OPTION			
20	AUTO RE-FEED WATER		O			
21	AUTO POWER OFF		O			

2. STRUCTURE OF THE WASHING MACHINE

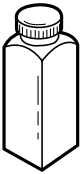
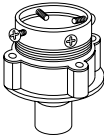
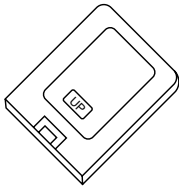
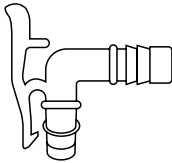
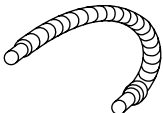
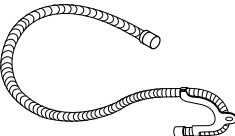
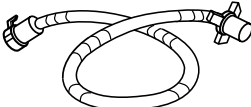
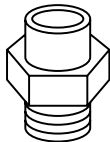
The parts and features of your washer are illustrated on this page.
Become familiar with all parts and features before using your washer.

NOTE

- The drawing in this book may vary from your washer model. They are designed to show the different features of all models covered by this book. Your model may not include all features.
- Page references are included next to same features.
Refer to those pages for more information about the features.



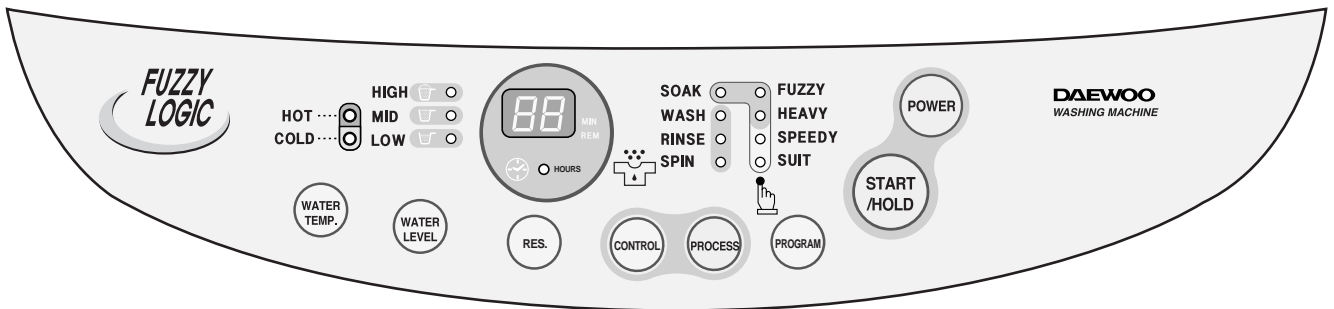
Accessories

DRYTEN(OPTION)	HOSE ADAPTER	UNDER COVER(OPTION)	HOSE CONNECTOR(OPTION)
	 In case of screw shaped inlet hoses water tap adapters will not be provided.		
DRAIN HOSE		INLET HOSE(OPTION)	CONNECTOR INLET(OPTION)
 NON PUMP MODEL	 PUMP MODEL		

3. FUNCTIONS OF THE CONTROL PANEL

Control panel has micom sensor.

As the buttons are pressed, the lamps indicating the selection of your desired washing program will light up.



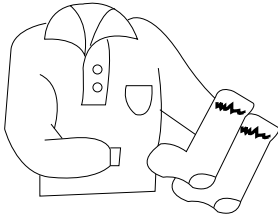


	<ul style="list-style-type: none"> Press this switch to turn the power on or off.
	<ul style="list-style-type: none"> It can be used to choose water temperature to be supplied. As the button is pressed, water temperature will be repeated. COLD → COLD+HOT → HOT In case of the single valve model, there is no wash temperature selector function.
	<ul style="list-style-type: none"> It can be used to adjust amount of water according to the size of the load to be washed. As the button is pressed, water level is selected by MID → HIGH → LOW
	<ul style="list-style-type: none"> It can be used to pre-engage time for wash.
	<ul style="list-style-type: none"> It is the button for the partial process or the combination of each process (wash, rinse, spin) (See page 7)
	<ul style="list-style-type: none"> If you want to change wash time, rinse times, spin time, you must press this button after selecting each process by the process button. Also, this button can be used to spin only. (See page 7)
	<ul style="list-style-type: none"> It can be used to select the full-automatic program. As the button is pressed, program will be selected by following order : FUZZY → FUZZY+SOAK → HEAVY → HEAVY+SOAK → SPEEDY → SUIT(WOOL)
	<ul style="list-style-type: none"> Operation and temporary stop is repeated as it is pressed. When you want to change program in operating; press the "START/HOLD" button → Select the program that you want to change → press the "START/HOLD" button again.

4. WASHING PROCEDURE AND PROGRAM SELECTION

§ Full Automatic Program





1. FUZZY PROGRAM (SENSOR);

- This selection is for general washing except extraordinary clothes.
- Artificial brain sensor selects properly the various kind of washing condition such as washing time, rinse times, spin time and water level. Procedure to press the button;

<p>① Put in the clothes</p> 	<p>② Press the power switch.</p> 	<p>③ Press the Start/Hold button, and close the lid.</p> 
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2. HEAVY PROGRAM;

- This selection is effective for blue-jean, climbing clothes, rucksack, sports wear etc..
- Procedure to press the button;

<p>① Press the power switch.</p> 	<p>② Press the program selection button for "HEAVY"</p> <p>§ FUZZY § HEAVY § SPEEDY § WOOL/SUIT</p> 	<p>③ Select the water level proper to the wash load.</p> <p>§ HIGH § MID § LOW</p> 	<p>④ Press the Start/Hold button and close the lid.</p> 
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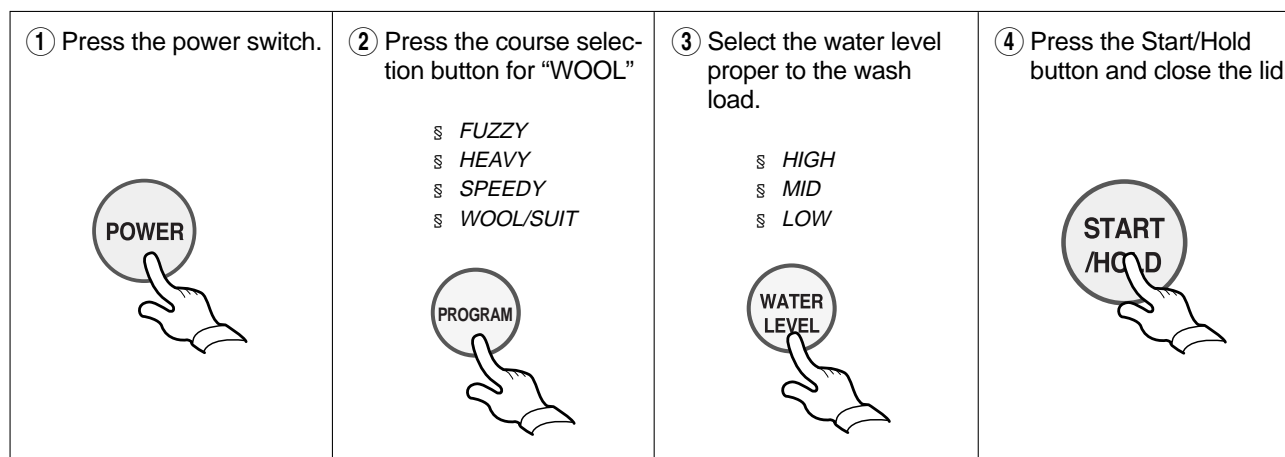
3. SPEEDY PROGRAM;

- This selection is useful to reduce water consumption and washing time for less dirty clothes. Procedure to press the button;

<p>① Press the power switch.</p> 	<p>② Press the program selection button for "LIGHT"</p> <p>§ FUZZY § HEAVY § SPEEDY § WOOL/SUIT</p> 	<p>③ Select the water level proper to the wash load.</p> <p>§ HIGH § MID § LOW</p> 	<p>④ Press the Start/Hold button and close the lid.</p> 
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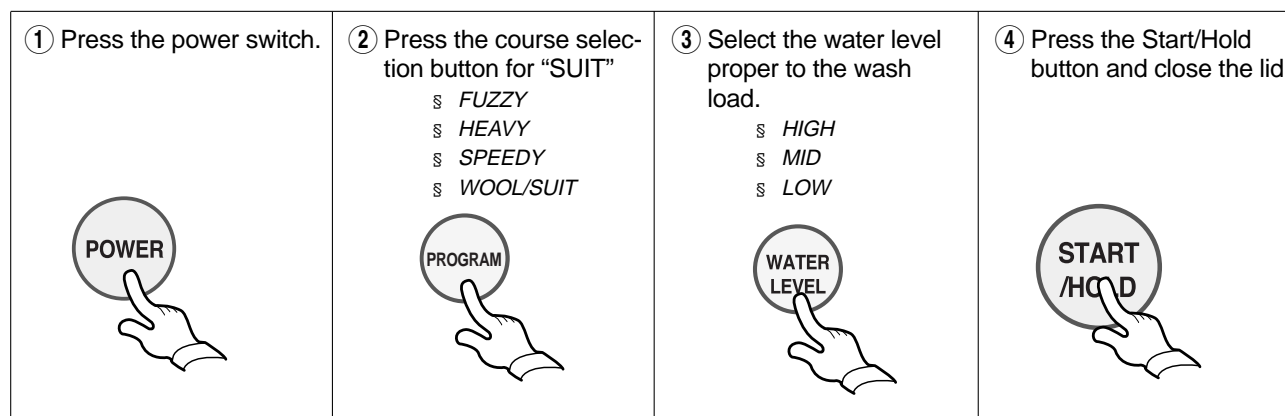
4. SUIT(WOOL) PROGRAM;

- This selection is effective for suit/wool clothes. (1.2kg's limitation for 1-time wash)
- Do not put leather clothes, or chamios clothes into the washing tub for washing. It may cause shrinkage or deformation to the clothes.
- Please use the neutral detergents only.
- The water temperature is fixed to "COLD".
- The water level "LOW" is not selected. Procedure to press the button;



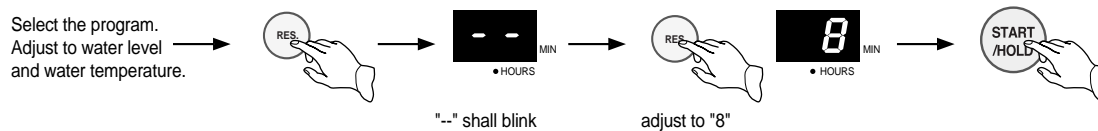
4. SOAK PROGRAM;

- This selection is effective for heavily soiled clothes.
- If you want to soak, press the program button to adjust to "FUZZY + SOAK" or "HEAVY + SOAK". Procedure to press the button;



Reserved Washing

- Reservation can be made from 2 hours to 48 hours.
- To make reservation to complete washing in 8 hours.



- Now the reservation is made.
- If you want to check the selected program, press the "START/HOLD" button again.

Partial Process & Combination

 ↓ 	WASH TIME CONTROL <ul style="list-style-type: none"> • As the control button is pressed, wash time will be repeated as following; 12 → 15 → 18 → 0 → 6 → 9min. • If you don't want wash process, you must adjust wash time to 0 min..
 ↓ ↓ 	RINSE TIMES CONTROL <ul style="list-style-type: none"> • As the control button is pressed, rinse times will be repeated as following; 2 → 3 → 4 → 0 → 1 time(s) • If you don't want rinse process, you must adjust rinse times to 0 times.
 ↓ ↓ 	SPIN TIME CONTROL <ul style="list-style-type: none"> • As the control button is pressed, spin times will be repeated as following; 5 → 7 → 9 → 0 → 1 → 3 min. • If you don't want spin process, you must adjust spin time to 0 min..

Convenient Operation For Spin Only

- If you want spin only, it is convenient to operate the button as following;

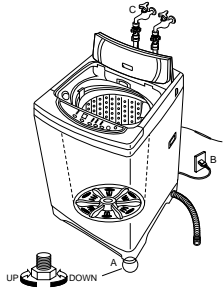


5. DIRECTIONS FOR INSTALLATION AND USE

§ Location Of Washer

Check location where washer will be installed. Make sure you have everything necessary for correct installation. Proper installation is your responsibility.

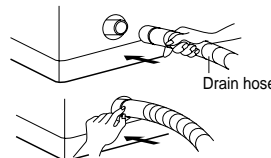
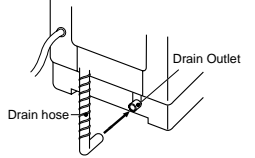
- Do not place or store your washer below 0°C(32°F) to avoid any damage from freezing.
- Install the washer on the horizontal solid floor.

	<p>If the washer is installed on an unsuitable floor, it could make considerable noise, vibrate and cause a malfunction. If washer is not level, adjust the front leg(A) up or down for horizontal setting.</p> <ul style="list-style-type: none"> • Earthed electrical outlet(B) is required with 20cm of bottom back of washer cabinet. • Hot and cold water faucets (C) must be within 1M of the upper back of the washer cabinet and provide water pressure 0.3kgf/cm²-8kgf/cm²(2.94N/cm²-78.4cm²).
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§ Drain System

Never forget to install drain hose before operating your washer. The packing box is opened, there are a drain hose.

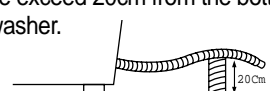
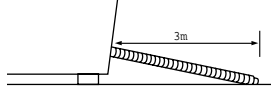
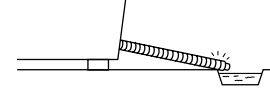
- Connect the drain hose to the drain outlet at the back side of the washer.

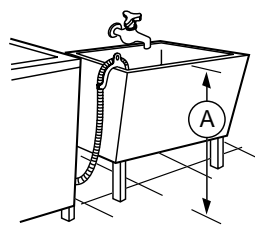
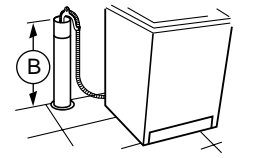
Non-Pump Model	Pump Model
	



NOTES

The opening must not be obstructed by carpeting when the washing machine is installed on a carpeted floor.

Non-Pump Model		
<p>① In case that it goes over a door sill. Don't let the height of the drain hose exceed 20cm from the bottom of washer.</p> 	<p>② In case of extending the drain hose. Don't let the total length exceed 3m.</p> 	<p>③ Be careful that the end of the drain hose is not immersed in water.</p> 

Pump Model	
Laundry tub drain system	Standpipe drain system
<ul style="list-style-type: none"> • Top of tub must be at least 86cm (34inches) high and no higher than 130cm from bottom of washer (A) 	<ul style="list-style-type: none"> • Needs a 3cm minimum diameter standpipe with minimum carry away capacity of 30liters per minute. • Top of tub must be at least 86cm(34inches) high and no higher than 130cm from bottom of washer (B) 

§ How to Connect the Inlet Hose

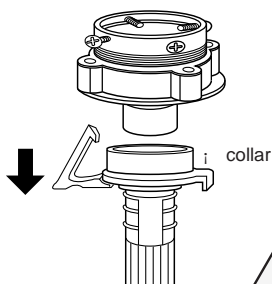
Be careful not to mistake in supplying between the hot(maximum : 50°C) and cold water.

In using only one water tap or in case of attached one water inlet valve, connect the inlet hose to the cold water inlet valve.

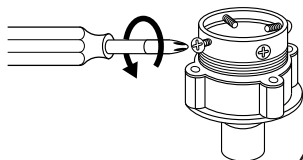
Do not over tighten : this could cause damage to couplings.

• • • • FOR ORDINARY TAP

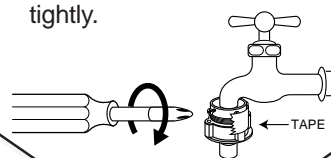
- 1** Pull down the collar of the inlet hose to separate it from the water tap adapter.



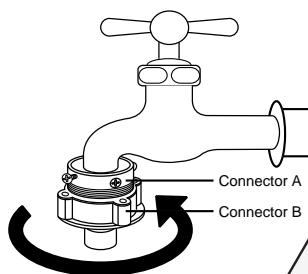
- 2** Loosen the four screws at the water tap adapter, but don't loosen the screws until they are separated from the water tap adapter.



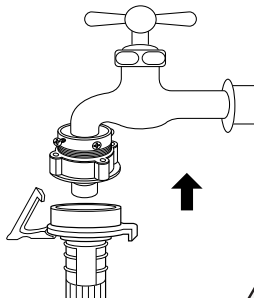
- 3** Connect the water tap adapter to the water tap and tighten the four screws evenly while pushing up the adapter so that the rubber packing can stick to the water tap tightly.



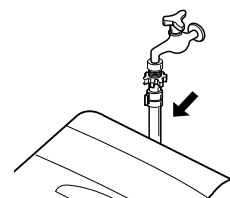
- 4** Remove the tape, and screw connector B into connect A tightly.



- 5** Connect the inlet hose to the water tap adapter by pulling down the collar of the hose end.



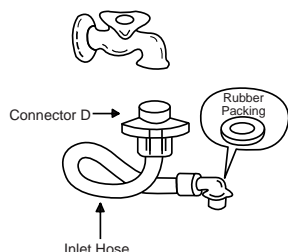
- 6** Connect the inlet hose adapter of the hose to the water inlet of the washer by turning it clockwise to be fixed tightly.



- Please check the rubber packing inside the inlet hose adapter of the hose.

• • • • FOR SCREW-SHAPED TAP

- 1** Connect the inlet hose to the water tap by screwing the connector D tightly.



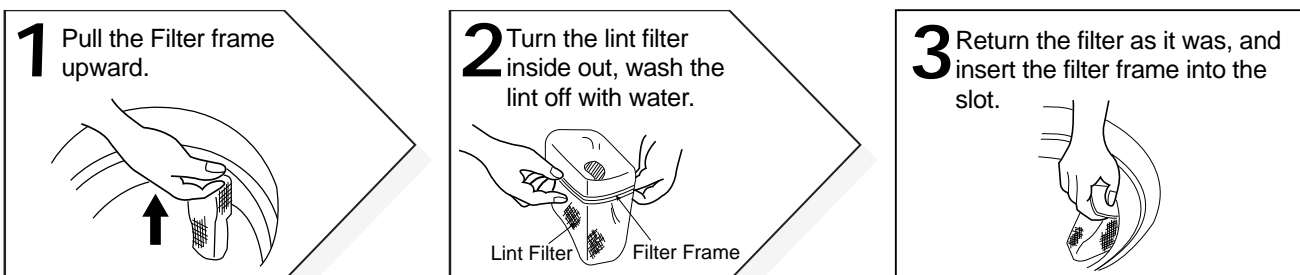
- 2** Insert the inlet hose adapter into the water inlet of washer and turn it to be fixed.



- Assert the packing in the inlet

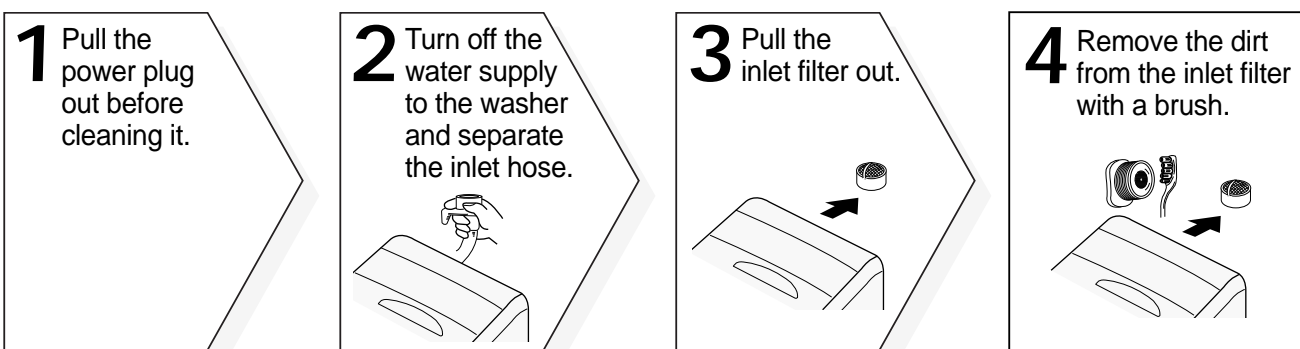
§ How To Clean The Filter

• • • • CLEANING THE LINT FILTER



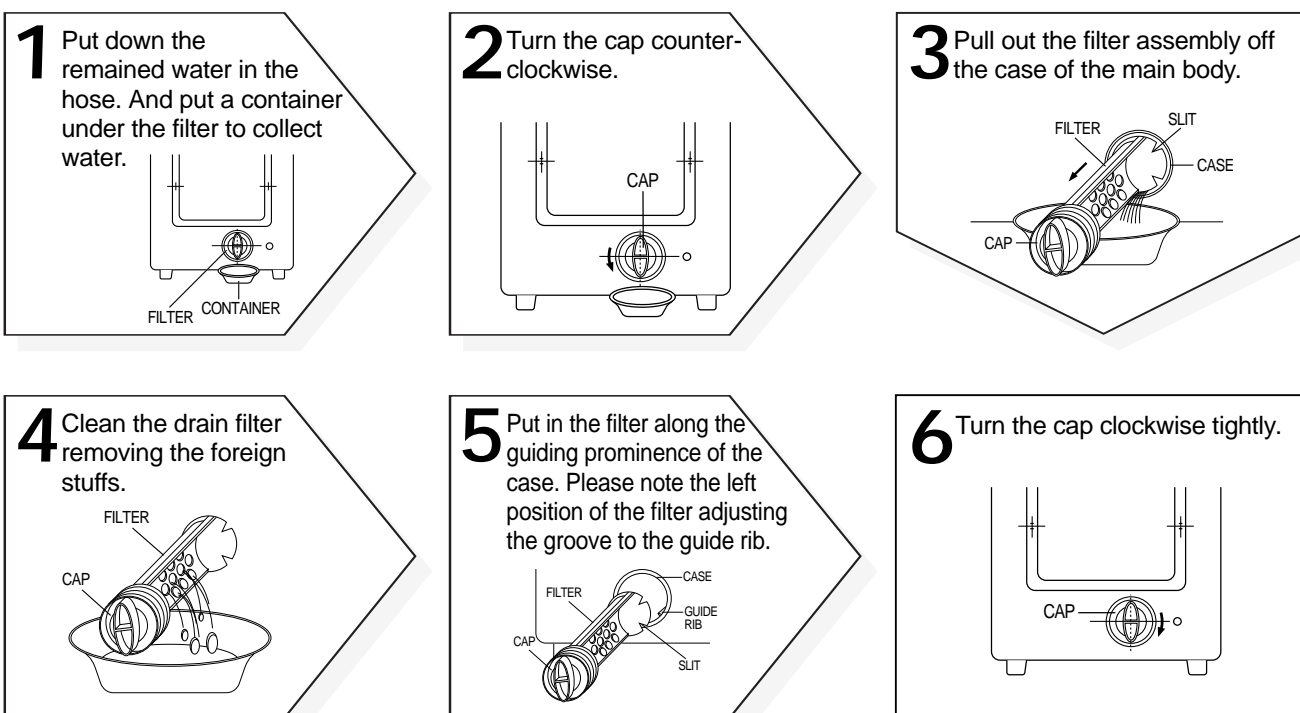
• • • • CLEANING THE WATER INLET FILTER

- Clean the filter when water leaks from the water inlet.



• • • • CLEANING THE DRAIN FILTER

- In case of "U" shaped drain hose, this filter's equipped at the back side of washer.
- This drain filter is to screen the foreign stuffs such as threads, coins, pins, buttons etc ..
- If the drain filter is not cleaned at proper time (every 10 times of use), drain problem could be caused.



6. FEATURE AND TECHNICAL EXPLANATION

Feature of the Washing Machine

- ① The first air bubble washing system in the world.
- ② Quiet washing through the innovational low-noise design.
- ③ The wash effectiveness is much more enhanced because of the air bubble washing system.
- ④ The laundry detergent dissolves well in water because of the air bubble washing system.
- ⑤ The adoption of the water currents to adjust the unbalanced load.
- ⑥ One-touch operation system.

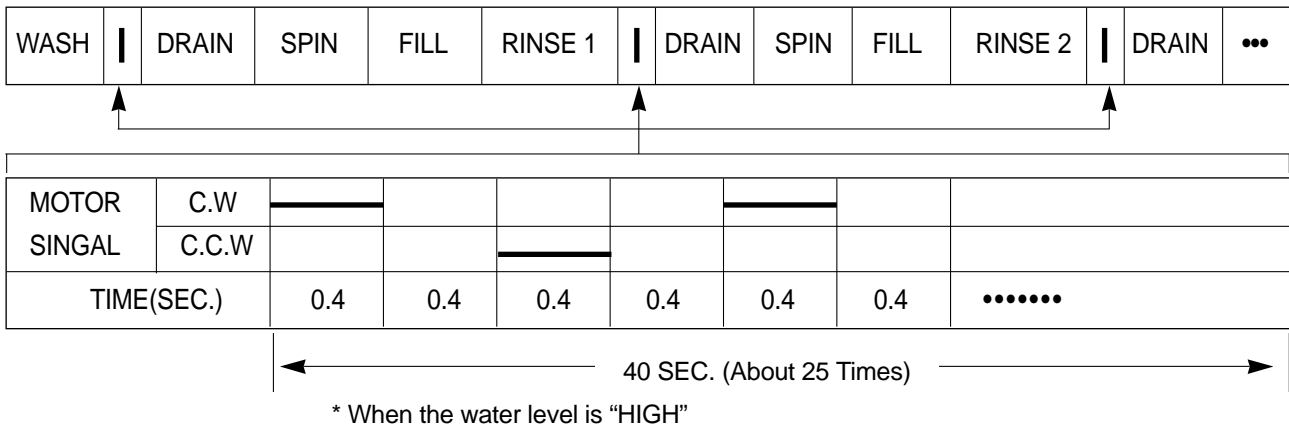
Water Current to Adjust the Unbalanced Load

It is a function to prevent eccentricity of the clothes after wash by rotating pulsator C.W and C.C.W for 35 seconds.(But, the SUIT course have no operation of the water currents to adjust the unbalanced load.)

EFFECT

It reduces vibration and noise effectively while spinning.

WATER FLOW



Automatic Water Supply System

The water level would be lowered because the clothes absorbs water at the beginning of washing. Therefore, after 60 seconds, the operation is interrupted to check the water level, and then the water is supplied again until the selected water level is reached.

Automatic Draining time Adjustment

This system adjusts the draining time automatically according to the draining condition.

Draining condition	Good draining	The washer begins spin process after drainage.
	Bad draining	Draining time is prolonged.
	No draining	Program is stopped and gives the alarm.

FUNCTIONAL PRINCIPLE

- ① The micom can remember the time from the beginning of drain to reset point when the pressure switch reaches to "OFF" point

Drain Time	Movement of the Program
Less than 10 minutes	Continue draining
More than 10 minutes	Program stops and gives the alarm with DE blinked on display lamp.

- ② In case of continuous draining, residual drain time is determined by micom.

Draining time as a whole = D + 40

_____ Residual drain time.
_____ The time remembered by micom.

Softener Dispenser

This is the device to dispense the softener automatically by centrifugal force.
This is installed inside the auto-balancer.

FUNCTIONAL PRINCIPLE

- ① Softener stays in room (A) when poured into softener inlet.
- ② Softener moves from (A) to (B) by centrifugal force during intermittent spin process.
- ③ Softener flows from (B) to (C) during rinse process next to intermittent spin.
- ④ Softener moves from (C) to (D) by centrifugal force during second intermittent spin.

After spin process is finished, the softener is added into the tub through softener outlet.

FLOW OF THE SOFTENER

	Wash	Intermittent Spin	Hold	Intermittent Spin	Rinse	Spin
Normal Program	Centrifugal force (A) → (B)		Flow in (B) → (C)	Centrifugal force (C) → (D)	Flow in (D) →	_____

FLOW OF THE SOFTENER INSIDE OF THE BALANCER

Room inside the balancer	Ⓐ	Ⓑ	Ⓒ	Ⓓ
Centrifugal force ↑				
Flowing by weight →				

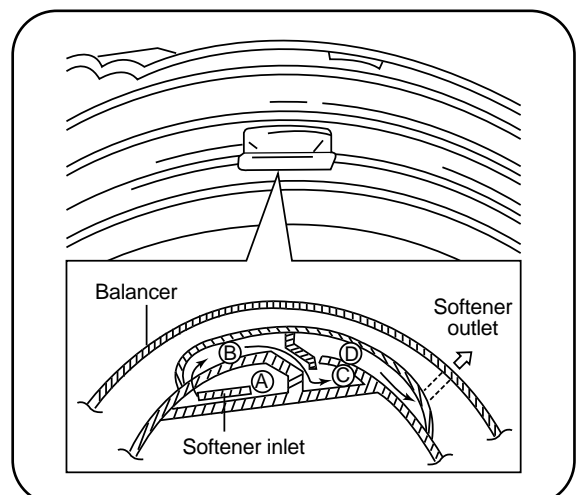


NOTES

Softener moves into the next room when r.p.m of the tub is more than 100 r.p.m.

HOW TO CHECK MOVEMENT

Pour a reasonable amount of "MILK" into softener dispenser and operate the washer with no load. In final rinse cycle, make sure that the milk is added into the tub through softener outlet.



Automatic Unbalance Adjustment

This system is to prevent abnormal vibration during intermittent spin and spin process.

FUNCTIONAL PRINCIPLE

- ① When the lid is closed, the safety switch contact is "ON" position.
- ② In case that wash loads get uneven during spin, the outer tub hits the safety switch due to the serious vibration, and the spin process is interrupted.
- ③ In case that P.C.B. ASS'Y gets "OFF" signal from the safety switch, spin process are stopped and rinse process is started automatically by P.C.B. ASS'Y.
- ④ If the safety switch is operated due to the unbalance of the tub, the program is stopped and the alarm is given.



NOTES

The alarm finished when you close the lid after opening it. Check the unbalance of the wash load and the installation condition.

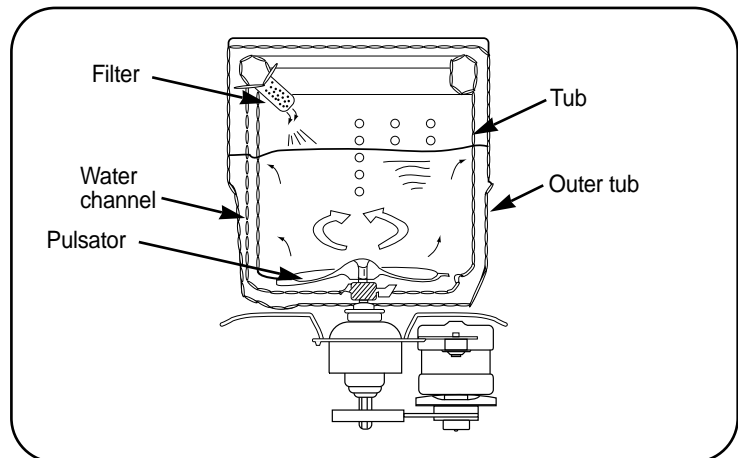
Circulating Water

CIRCULATING-WATER

The washing and rinsing effects have been improved by adopting the water system in which water in the tub is circulated in a designed pattern.

When the pulsator rotates during the washing or rinsing process, the water below the pulsator vanes creates a water currents as shown in figure.

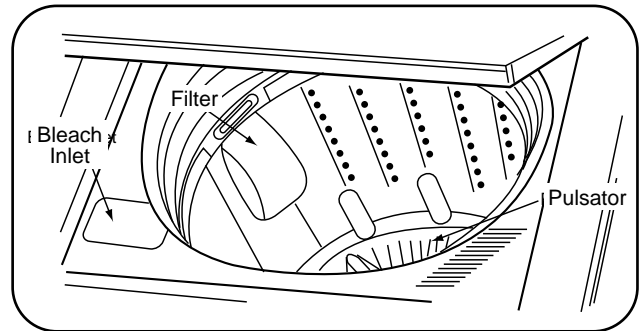
The water is then discharged from the upper part of the tub through the water channel. About 40 L/min. water is circulated at the 'high' water level, standard wash load and standard



Lint Filter

Much lint may be obtained according to the kind of clothes to be washed and some of the lint may also sticks to the clothes.

To minimize this possibility a lint filter is provided on the upper part of the tub to filter the wash water as it is discharged from the water channel. It is good to use the lint filter during washing.




HOW TO REPLACE LINT FILTER

- ① Pull the filter frame upward.
- ② Turn the lint filter inside out, and wash the lint off with water.
- ③ Return the filter as it was, and fix the filter frame to the slot.

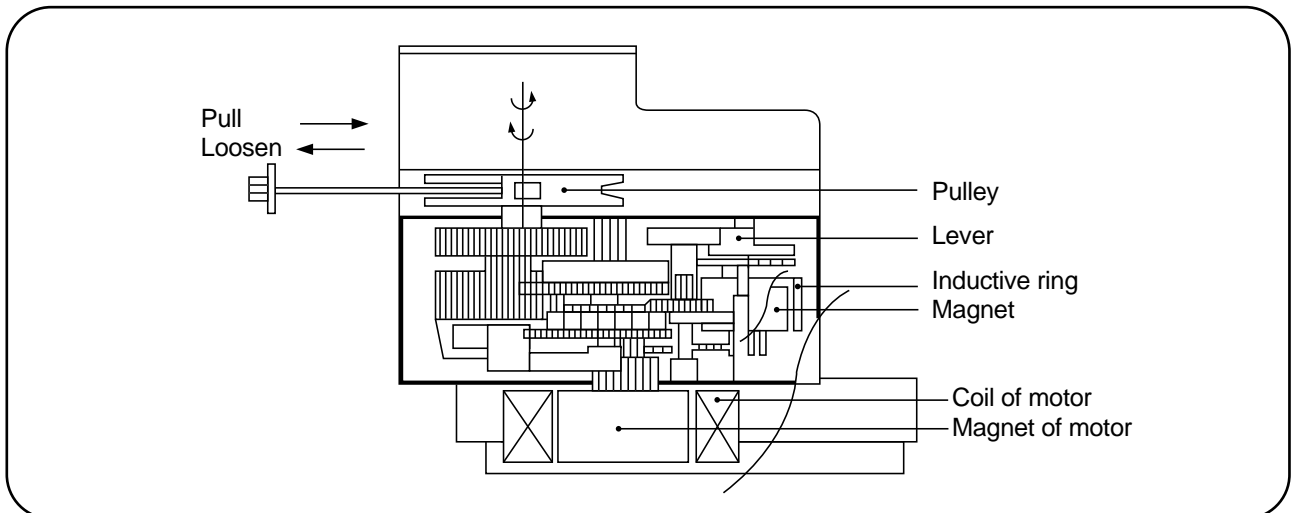
Residual Time Display

When the START/HOLD button is pressed, the residual time (min.) is displayed on the time indicator, and it will be counted down according to process.

When operation is finished, the TIME INDICATOR will light up .

Drain Motor

STRUCTURE

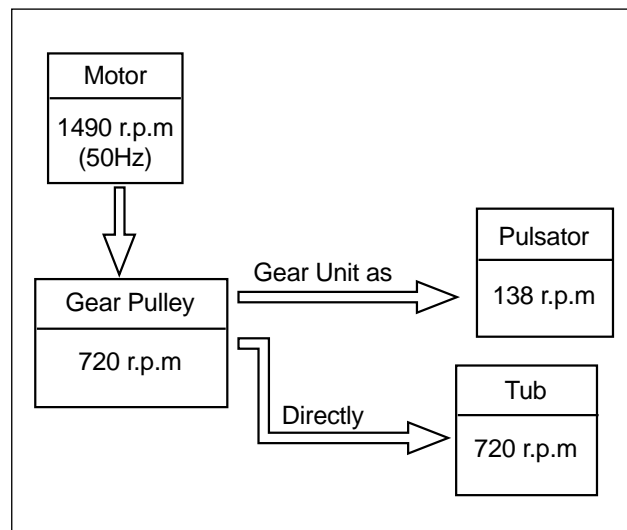
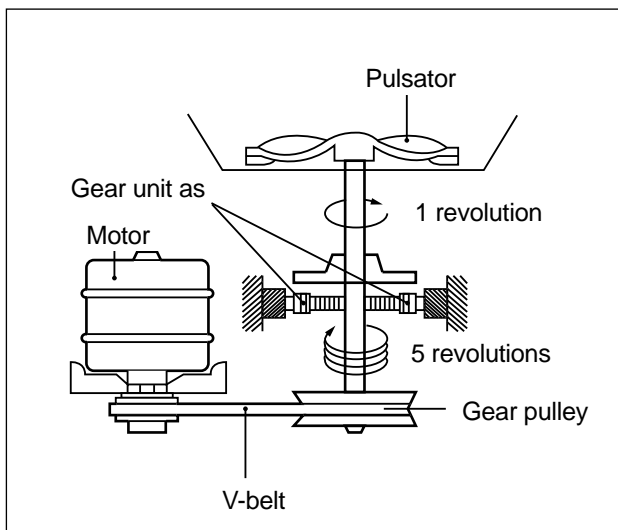
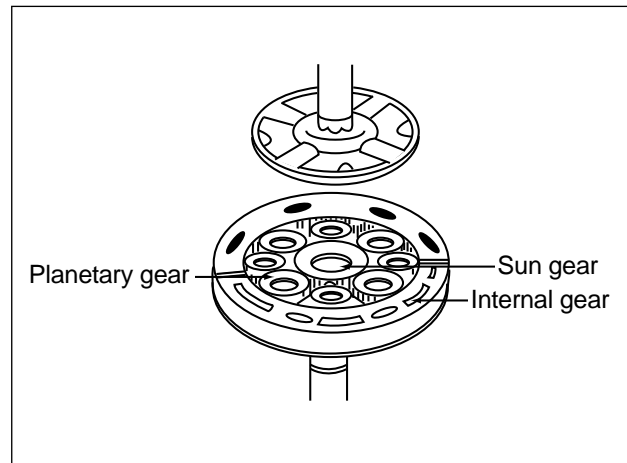
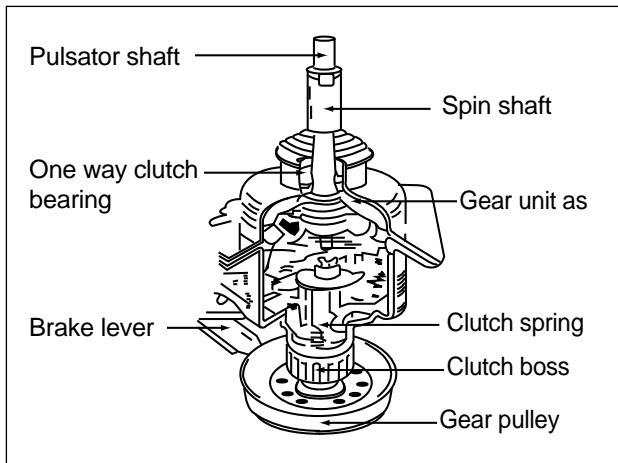


FUNCTIONAL PRINCIPLE

- ① When the DRAIN MOTOR connected to the power source, the DRAIN MOTOR rotates with 900 r.p.m and revolves the pulley by gear assembly for reducing.
- ② When the pulley is rotated, the pulley winds the wire to open the drain valve.
- ③ Therefore, rotation of pulley changed to the linear moving of wire.
- ④ The wire pulls the brake lever of Gear Mechanism Ass'y within 5 seconds.
- ⑤ After the wire pulled, gear assembly is separated from motor and condition of pulling is held by operation of the lever.
- ⑥ When the power is turned off, the drain valve is closed because the wire returns to original position.

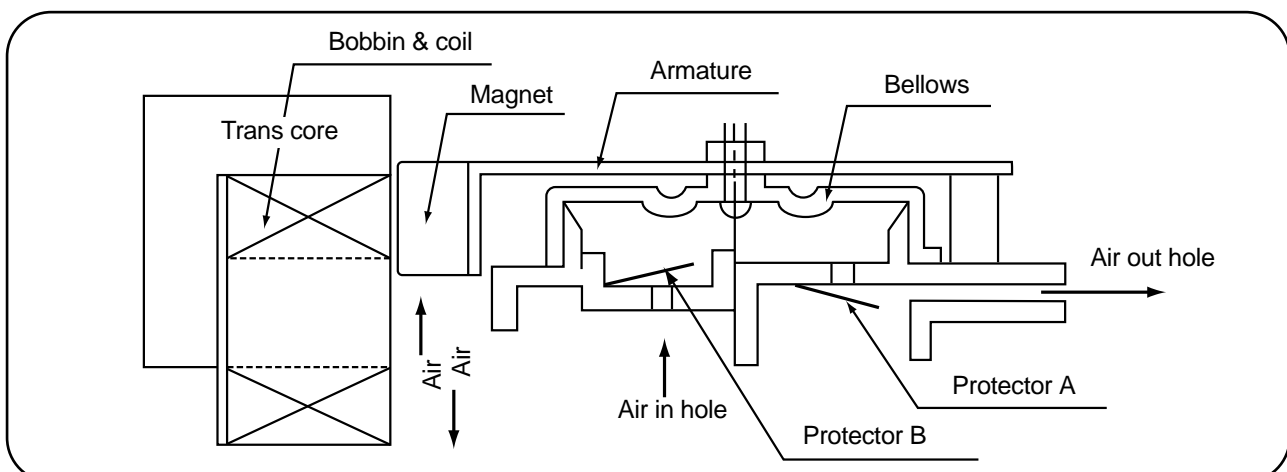
Gear Mechanism Ass'y

The proper water currents is made by the rotation of pulsator at a low speed to prevent the damage to the small sized clothes.



Principle of Bubble Generator

STRUCTURE



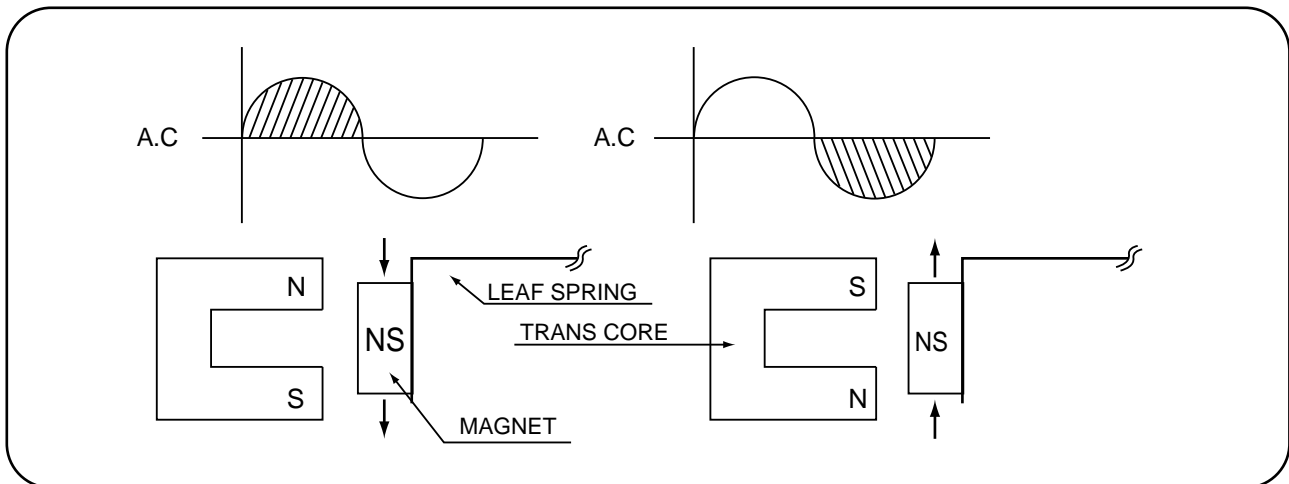
PRINCIPLE OF INTAKE & OUTLET OF THE AIR

INTAKE : ARMATURE moves up, and BELLOWS inhales the air. At the same time, protector B is open and A is close.

OUTLET : ARMATURE moves down, and BELLOWS exhales the air. At the same time, protector B is close and A is open.

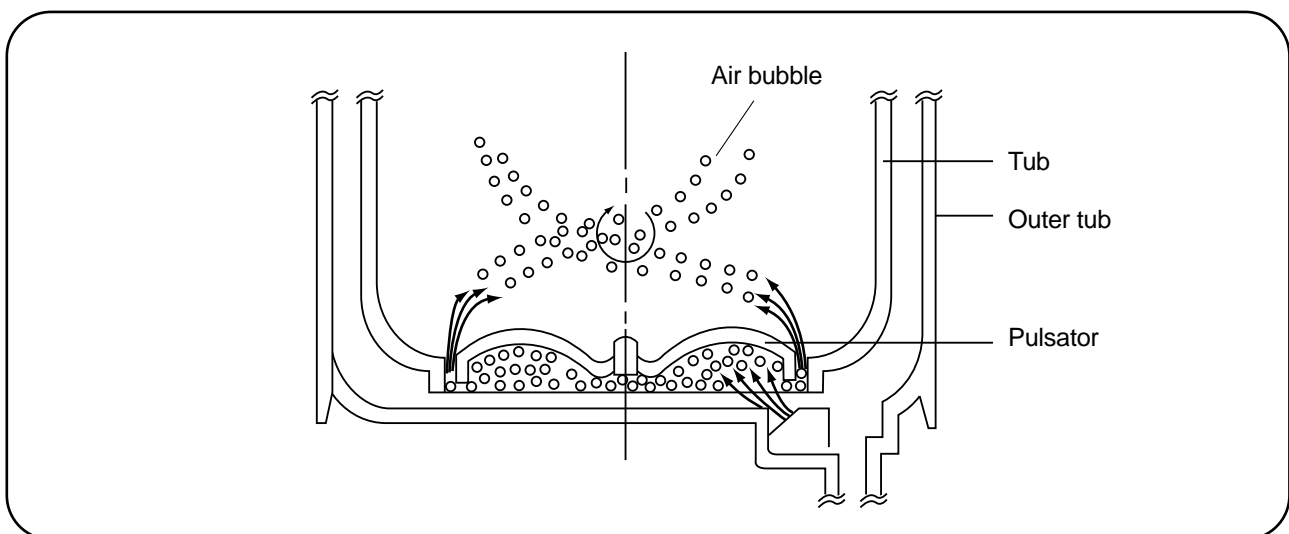
FUNCTIONAL PRINCIPLE OF TRANS & MAGNET

- ; The phase of A.C electric power changes to 60 cycle/second.
- ; The magnetic pole of trans core is changed by the change of the phase of A.C electric power.
- ; The core repeats push and pull (3600 times/min.) of the armature magnet.



Functional Principle of Bubble Washing Machine

ACROSS SECTION



FUNCTIONAL PRINCIPLE

Bubble generator supplies the air from the bottom of outer tub to the inner space of pulsator, the air is dispersed by the rotation of pulsator. Air-bubble is created by the centrifugal force, and rises up.

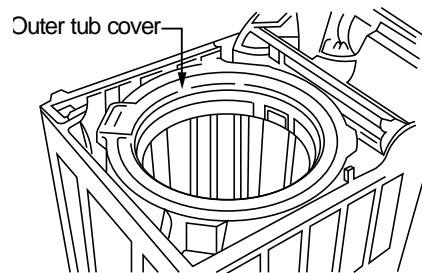
7. DIRECTIONS FOR DISASSEMBLY AND ADJUSTMENT

Warning

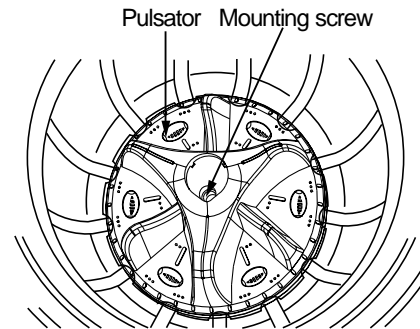
BEFORE ATTEMPTING TO SERVICE OR ADJUST ANY PART OF THE WASHING MACHINE, DISCONNECT THE POWER CORD FROM THE ELECTRIC OUTLET.

Gear Mechanism Ass'y Replacement

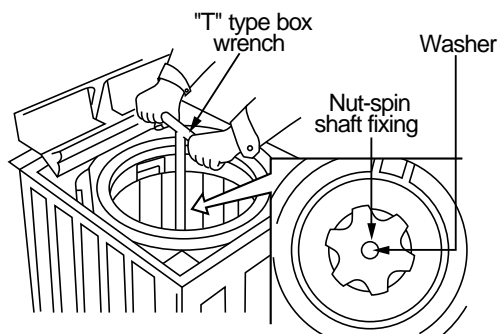
- ; Raise the top plate on the outer cabinet.
- ; Remove outer tub cover from the tub ass'y.



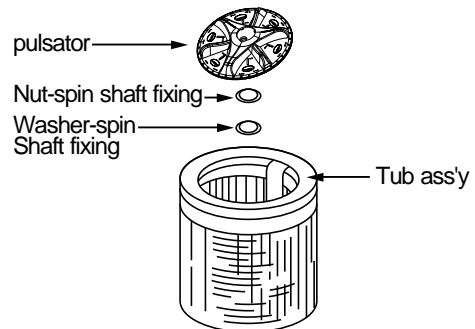
- ; Loosen the pulsator mounting screw and remove the pulsator.



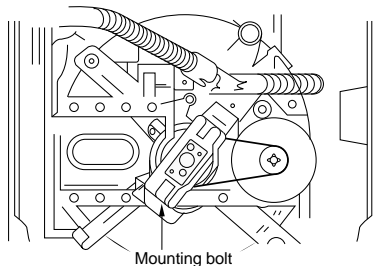
- ; Remove the spinner shaft flange nut by using 'T' type box wrench.



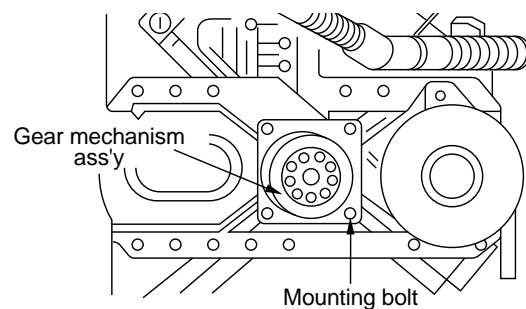
- ; Remove the tub ass'y.



- ; Lay the front of the washer on the floor.
- ; Remove four bolts mounting the plate-gear protect by using a box wrench and remove plate-gear protect.
- ; Remove the V-belt.



- ; Remove four bolts mounting the gear mechanism ass'y by using a box wrench.
- ; Pull out the gear mechanism ass'y.

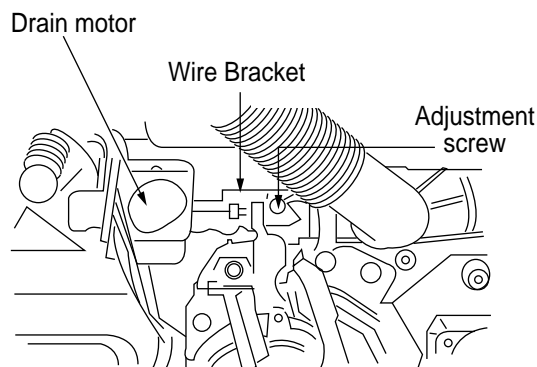


NOTES

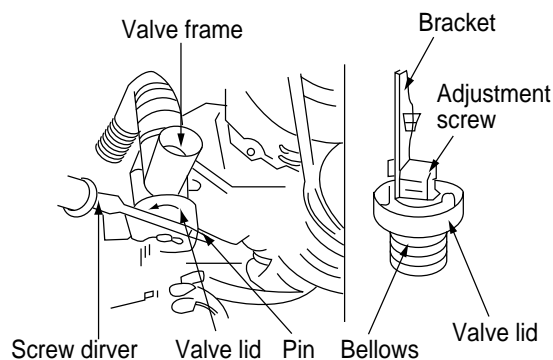
To assemble the gear mechanism ass'y, reverse the disassembly procedure.

Drain Motor and Valve

- i Lay the front of the washer on the floor.
- i Loosen the adjustment screw and two bolts mounting the drain motor.
- i Take out the wire of drain motor from the bracket.

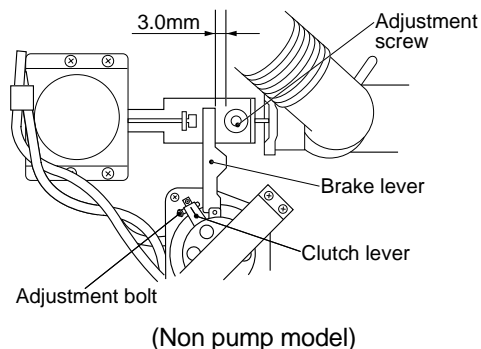


- i Separate the drain motor from the bracket.
- i Turn the valve lid by using screw driver as shown in figure and remove the valve lid from the valve frame.



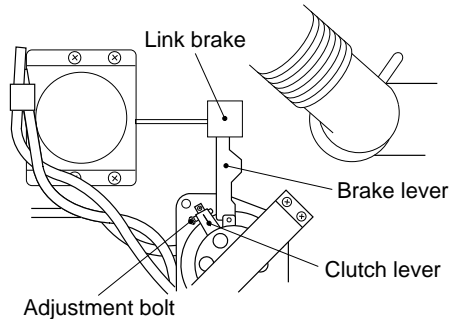
Brake Adjustment

- i Loosen the adjustment screw fastening the bracket and place the adjustment screw to the brake lever as shown in figure.
- i Tighten the adjustment screw completely.



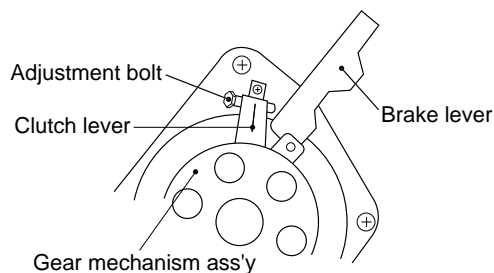
(Non pump model)

- i Tighten the link brake screw completely.



(Pump model)

- i Loosen the adjustment bolt and turn the adjustment bolt until the end of the bolt touches to the brake lever.
- i Tighten the lock nut and apply a small amount of paint-lock.



NOTES:

1. The brake adjustment has been made at the factory, so that it is not re-adjust. However, in case of insufficient brake operation, problem the upper procedure.
2. Overtightening of the adjustment bolt will cause poor brake performance.
3. Undertightening of the adjustment bolt will cause continuous braking and thereby cause the problems of the motor during the spingcycle.

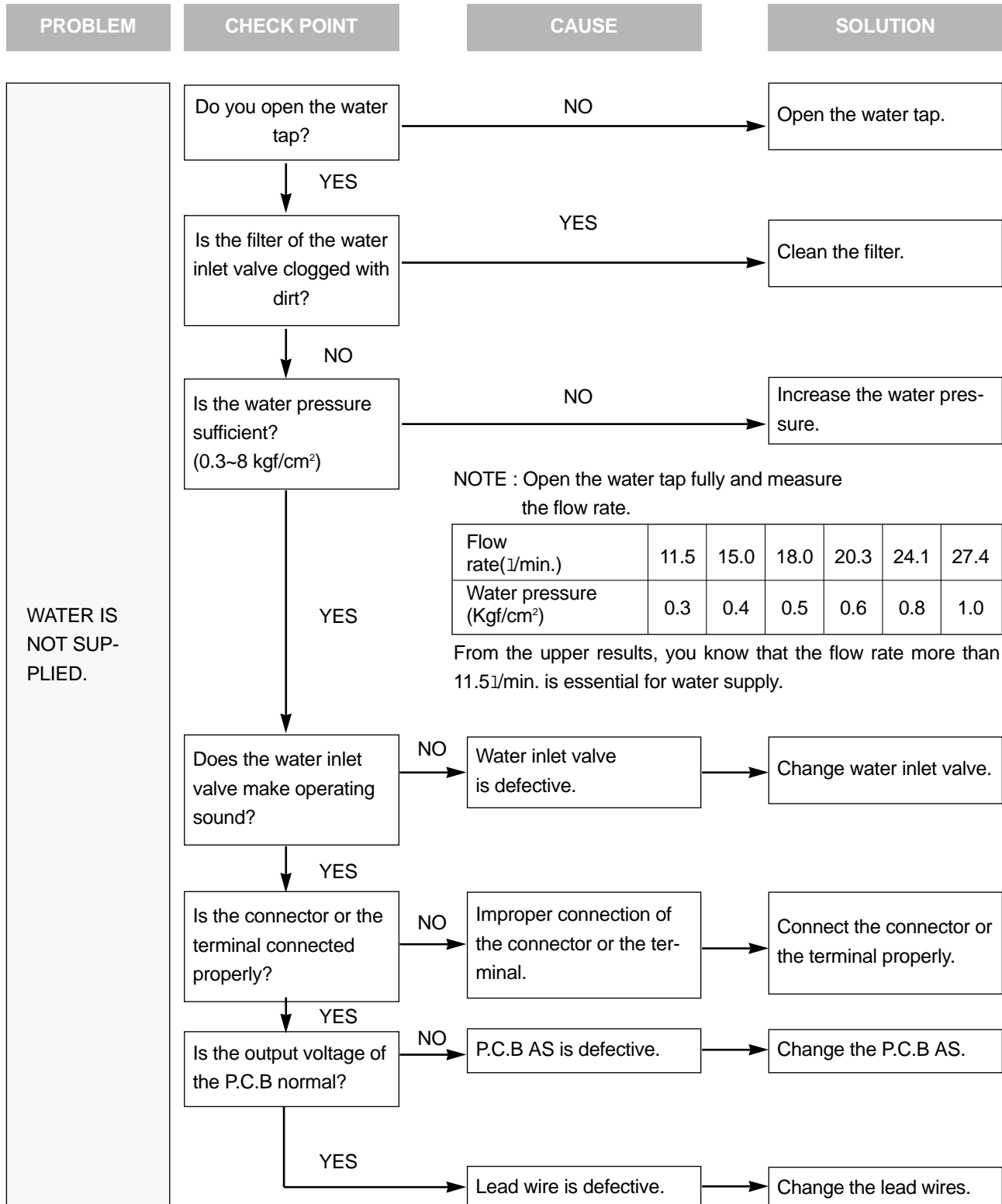
8. TROUBLE SHOOTING GUIDE



NOTES

1. When replace the P.C.B. ASS'Y do not scratch the surface of the P.C.B. ASS'Y.
2. Disconnect the power cord from the electric outlet.

Concerning Water Supply



PROBLEM	CHECK POINT	CAUSE	SOLUTION
WATER SUPPLY IS NOT STOPPED.	Does the water supply continue while the power is turned off?	YES The water inlet valve is defective.	Change the water inlet valve.
	NO		
	Does the water supply start as soon as you press the power switch?	YES The triac of P.C.B is defective.	Change the P.C.B ASS'Y.
	NO		
	Operate the washer after setting the water level to "HIGH"		
	Does the water supply continue after the water reaches to the "HIGH" level?	NO Normal operation.	
	YES		
	Is the air tube of water level switch kinked or deformed?	YES Air tube is defective.	Change the air tube.
	NO	Pressure switch is defective.	Change the pressure switch.

Concerning Washing

PROBLEM	CHECK POINT	CAUSE	SOLUTION
THE PULSATOR DOES NOT ROTATE EVEN IF THE WATER IS SUPPLIED.	Does the motor operate after finishing water supply?		
	NO		
	YES		
	Does pulsator rotate in only one direction?	YES The triac of P.C.B is defective.	Change the P.C.B ASS'Y.
	NO		Normal
	Does the motor make operating sound?		
	YES		
	NO		
	Is the motor coil disconnected?	YES Motor is defective.	Change the motor.
	NO	Improper connection	Connect the terminal properly.
	Is the connection condition of capacitor terminal good?	YES	
	Is the V-belt worn out?	YES V-belt is defective.	Change the V-belt.
	NO		Change the motor.

Concerning Draining

PROBLEM	CHECK POINT	CAUSE	SOLUTION
THE WASHER DOES NOT DRAIN.	Do you install the drain hose properly?	NO Improper installation	Install the drain hose properly.
	YES Is the foreign matter accumulated inside the pump housing?	YES Malfunction of drainage by the foreign matter	Remove the foreign matter from the pump housing
	NO Is the output voltage of the drain pump normal?	YES Drain pump is defective	Change the Drain pump
	NO	P.C.B ASS'Y is defective.	Change the P.C.B ASS'Y.

Concerning Spinning







PROBLEM	CHECK POINT	CAUSE	SOLUTION
THE WASHER DOES NOT SPIN.	Is the lid open?	YES	Close the lid.
	NO		
	Does the safety switch operate normally?	NO	Safety switch is defective. Change the safety switch.
	YES		
	Is the connector of P.C.B ASS'Y connected properly?	NO	Improper connection of the connector. Connect the connector properly.
	YES	P.C.B. ASS'Y is defective.	Change P.C.B ASS'Y.
	Does the pulsator rotate while the tub does not rotate?		
	NO		
	YES		
	Is the input voltage of the drain motor normal?	YES	Drain motor is defective. Change the drain motor.
	NO	P.C.B ASS'Y is defective.	Change the P.C.B ASS'Y.
	Is the V-belt worn out?	YES	V-belt is defective. Change the V-belt.
	NO		
	Is the input voltage of motor normal?	YES	Motor is defective. Change the motor.
	NO		
	Is the connection condition of capacitor terminal good?	NO	Improper connection. Connect the terminal correctly.
	YES	P.C.B ASS'Y is defective.	Change the P.C.B ASS'Y.

Concerning Operation

PROBLEM	CHECK POINT	CAUSE	SOLUTION
THE INDICATOR LAMPS(L.E.D) DO NOT LIGHT UP WHEN THE POWER BUTTON IS PRESSED.	Is the plug connect-ed to electric outlet?	NO	Connect the plug.
	↓ YES	YES	Change Fuse
	↓ NO	NO	Is the condition of power button good?
	↓ YES	NO	Power button is defective
	↓ YES	NO	Improper connection of the connector.
	Is the connector of the P.C.B. ASS'Y connect-ed properly?	YES	P.C.B. ASS'Y is defec-tive.
			Change P.C.B ASS'Y.
PROGRESS LAMPS(LED) DO NOT LIGHT UP.	Do you press START/HOLD button?	NO	Press START/HOLD but-ton.
	↓ YES	P.C.B ASS'Y is defective.	Replace P.C.B ASS'Y.
MOTOR ROTATES WHEN START/HOLD BUTTON IS NOT PRESSED.	Does the pressure switch operate normally?	NO	Pressure switch is defec-tive.
	↓ YES	Abnormal	P.C.B ASS'Y is defective
	Check the output voltage of P.C.B ASS'Y		Change P.C.B ASS'Y.
ABNORMAL NOISE DURING WASH PROCESS.	Is the strange noise gen-erated when the pulsator rotates in TEST MODE of P.C.B ASS'Y?	YES	There is foreign matter between pulsator and tub.
	↓ NO	YES	V-belt is defective.
	Is the V-belt worn out?		Change the V-belt.

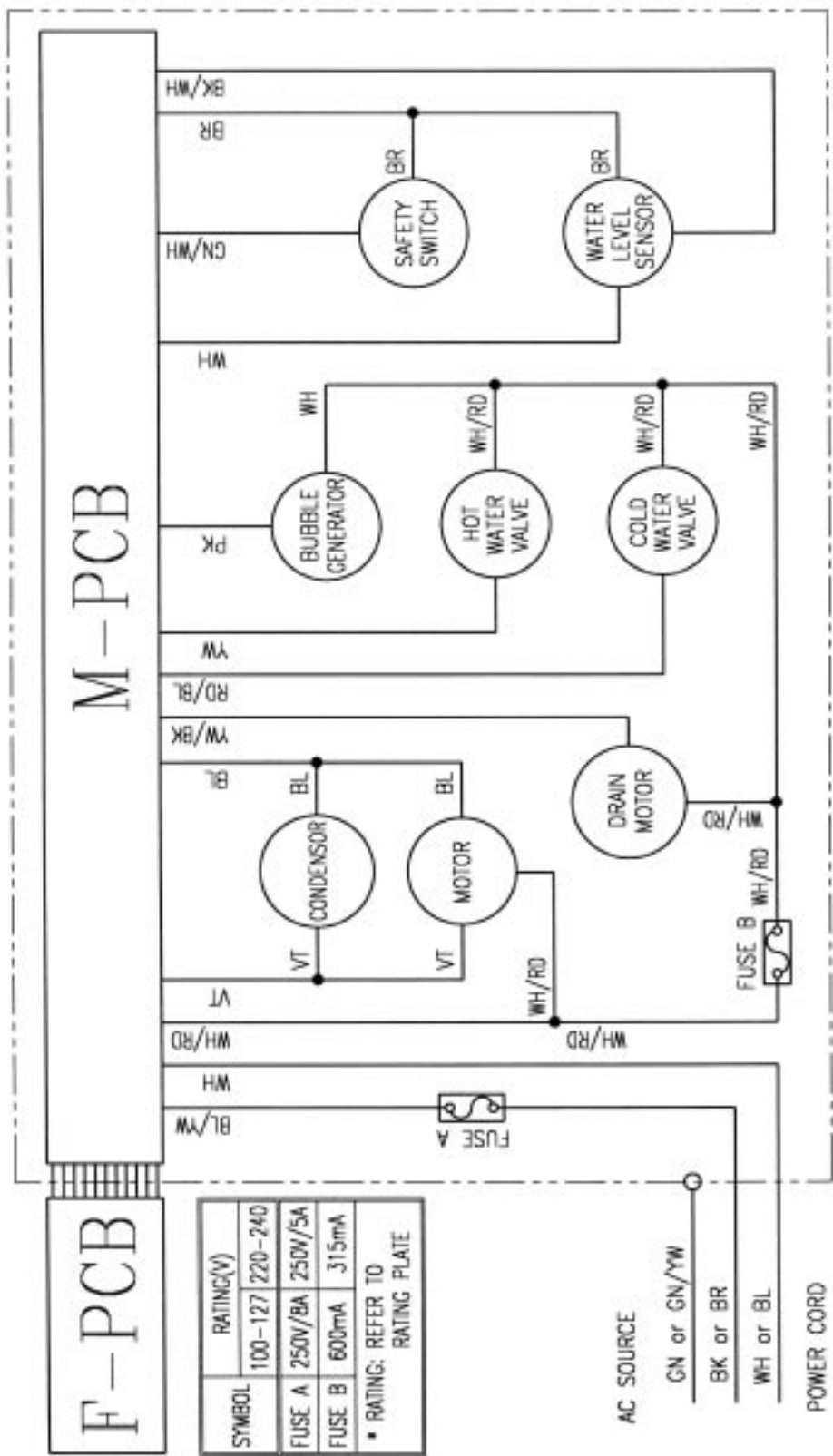
9. PRESENTATION OF THE P.C.B ASS'Y

Concerning Error Message

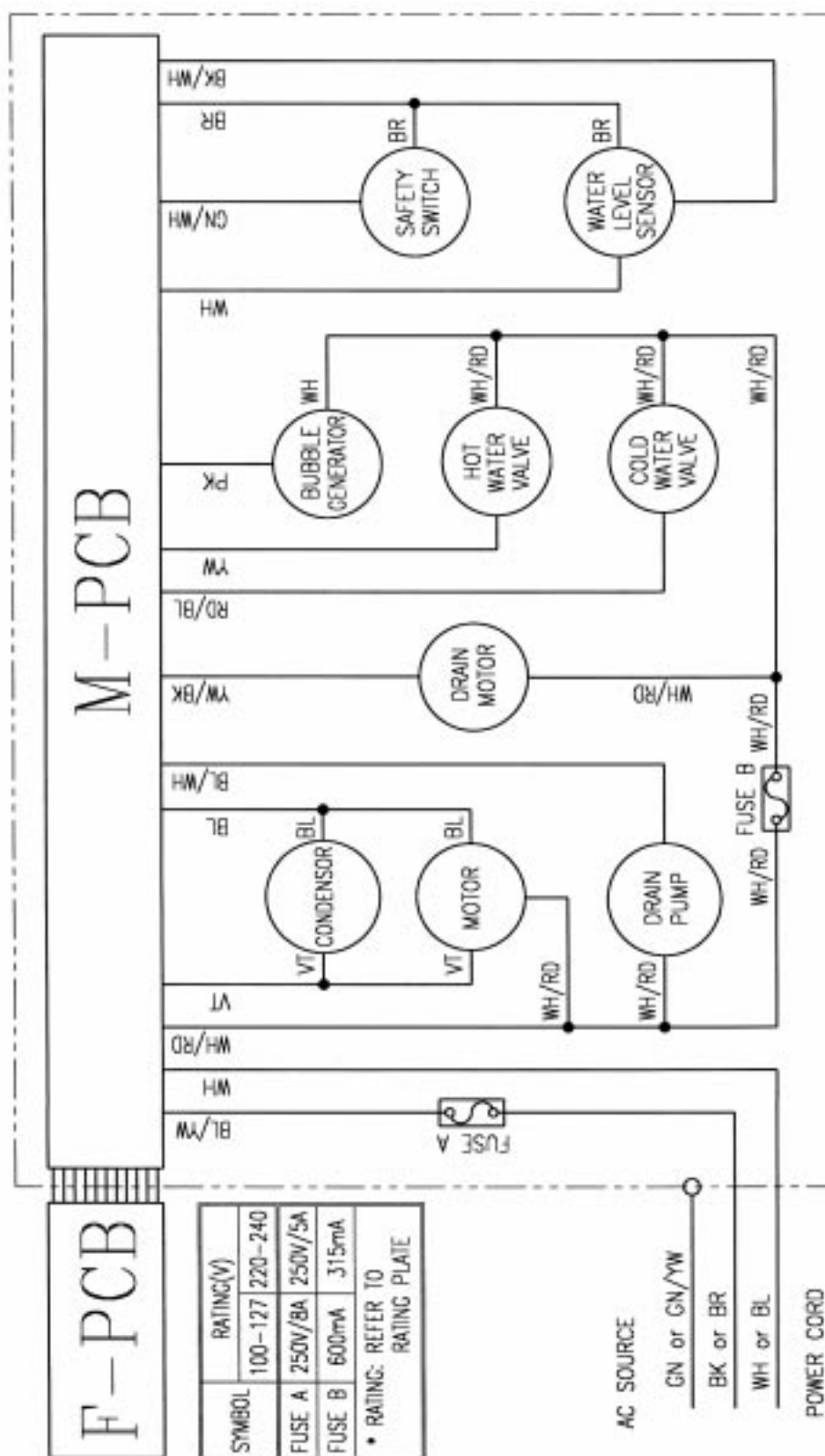
MESSAGE	CAUSE	SOLUTION
	Improper installation of drain hose.	Install drain hose properly.
	The drain hose is blocked up by foreign matter.	Remove foreign matter from drain hose.
	Drain motor is inferior.	Change drain motor.
	The water tap is closed.	Open the water tap.
	The water inlet filter clogged.	Clean the water inlet filter.
	It passes over the 30 minutes, yet it doesn't come to assigned water level.	Check whether or not it comes to the assigned water level.
	Wash loads get uneven during spin.	Re-set wash loads evenly.
	Poor installation of the unit.	Proper installation.
	The lid is opened.	Close the lid.
	The safety switch is inferior.	Change the safety switch.
	The load sensing is inferior. After the load sensing operates about 7 seconds, the message is displayed during 1 second and water level is always fixed 'high'.	Change the P.C.B. ASS'Y.
	The water level sensing is inferior.	Check the water level sensor and the contact part of the connector.

APPENDIX

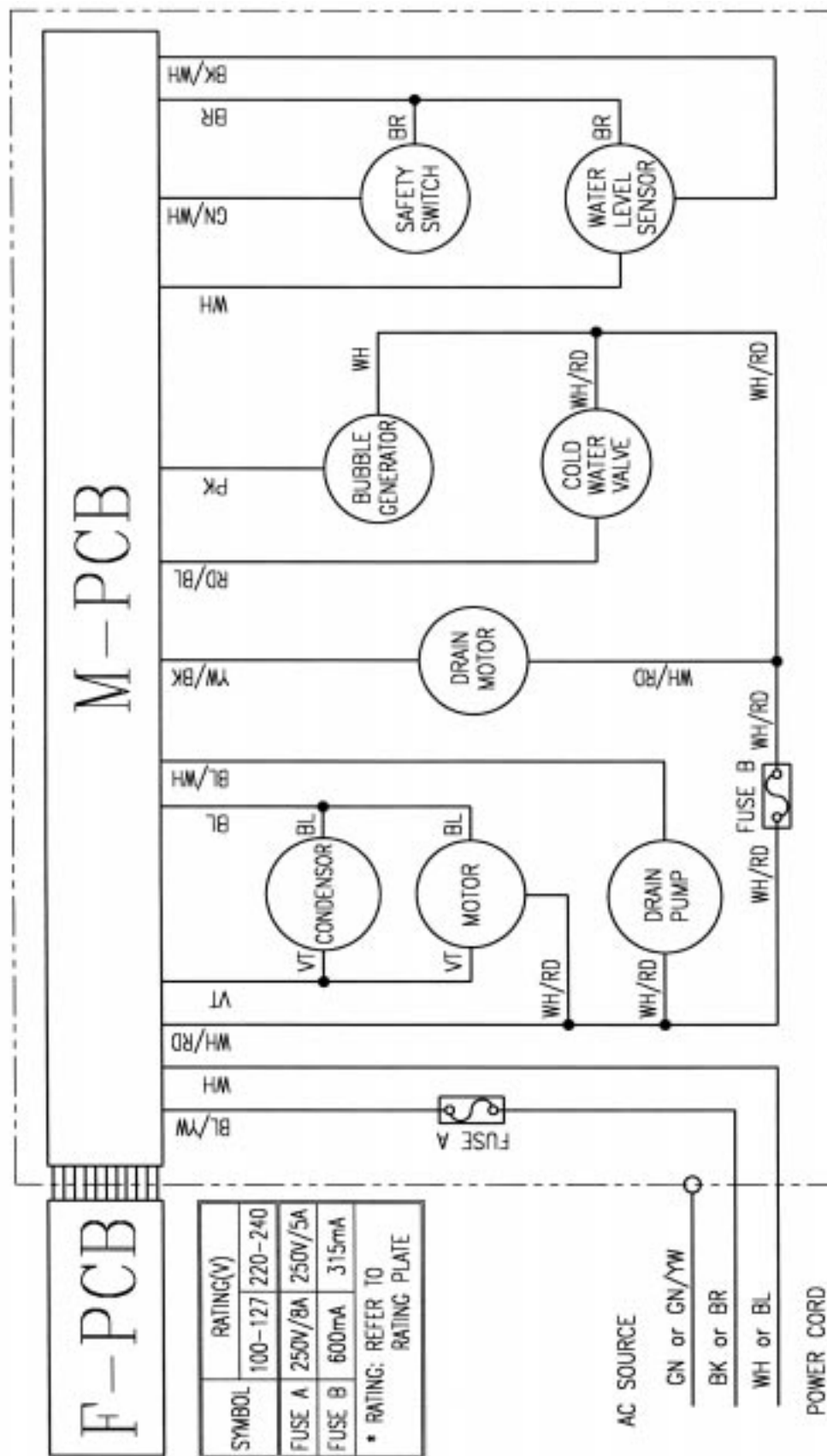
Wiring Diagram [non-pump]



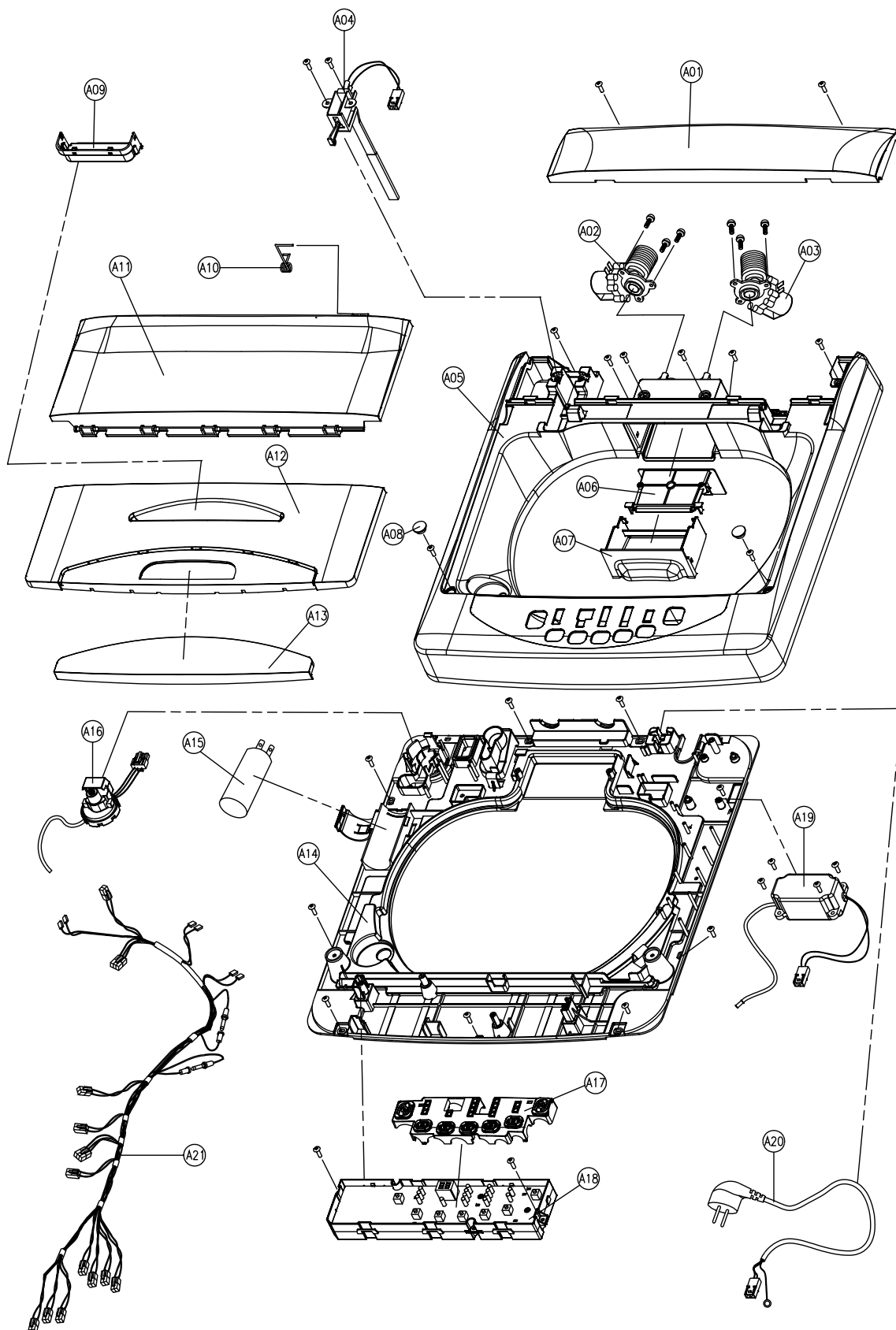




22 [pump, single valve]



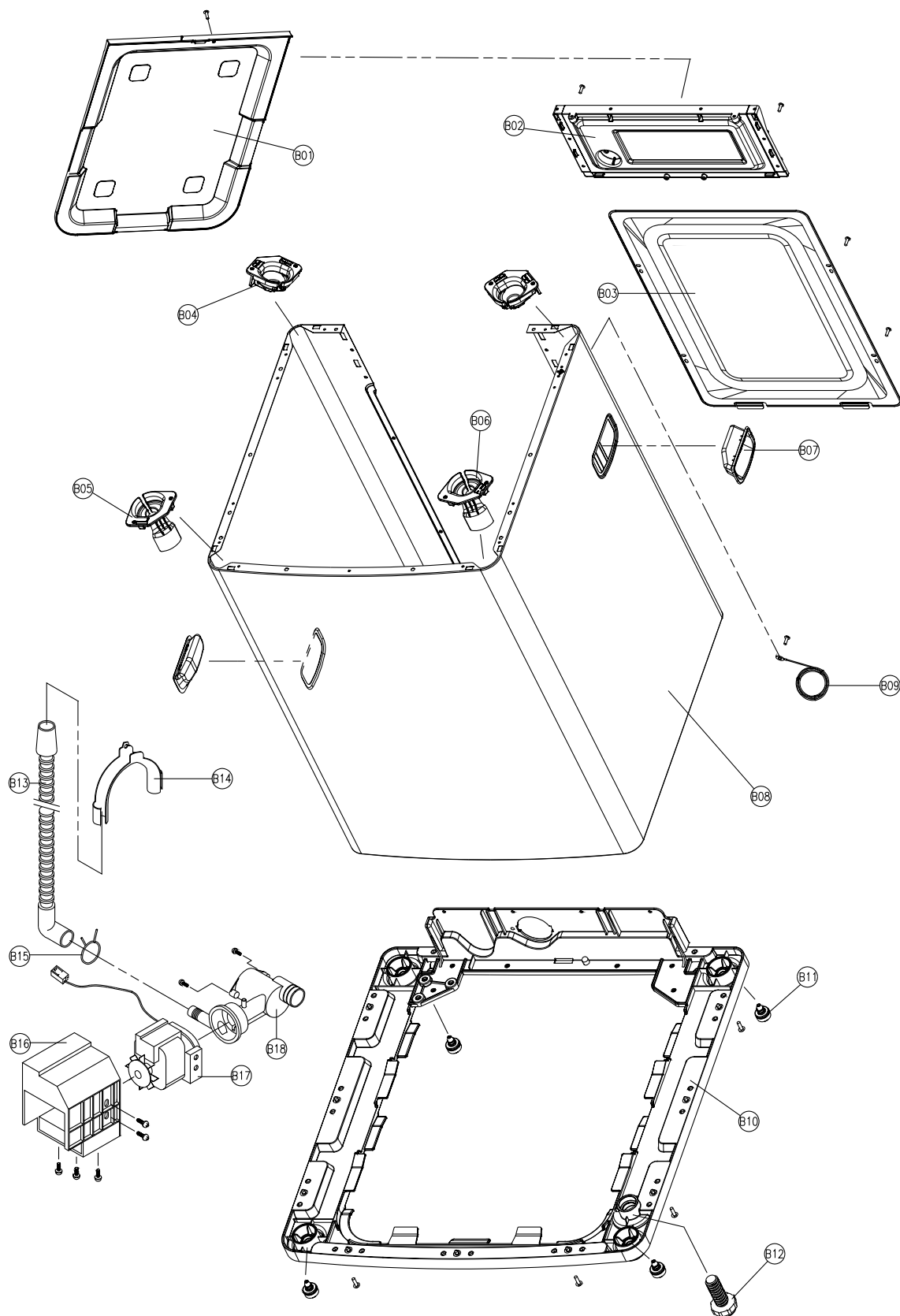
§ Parts Diagram



§ Parts List

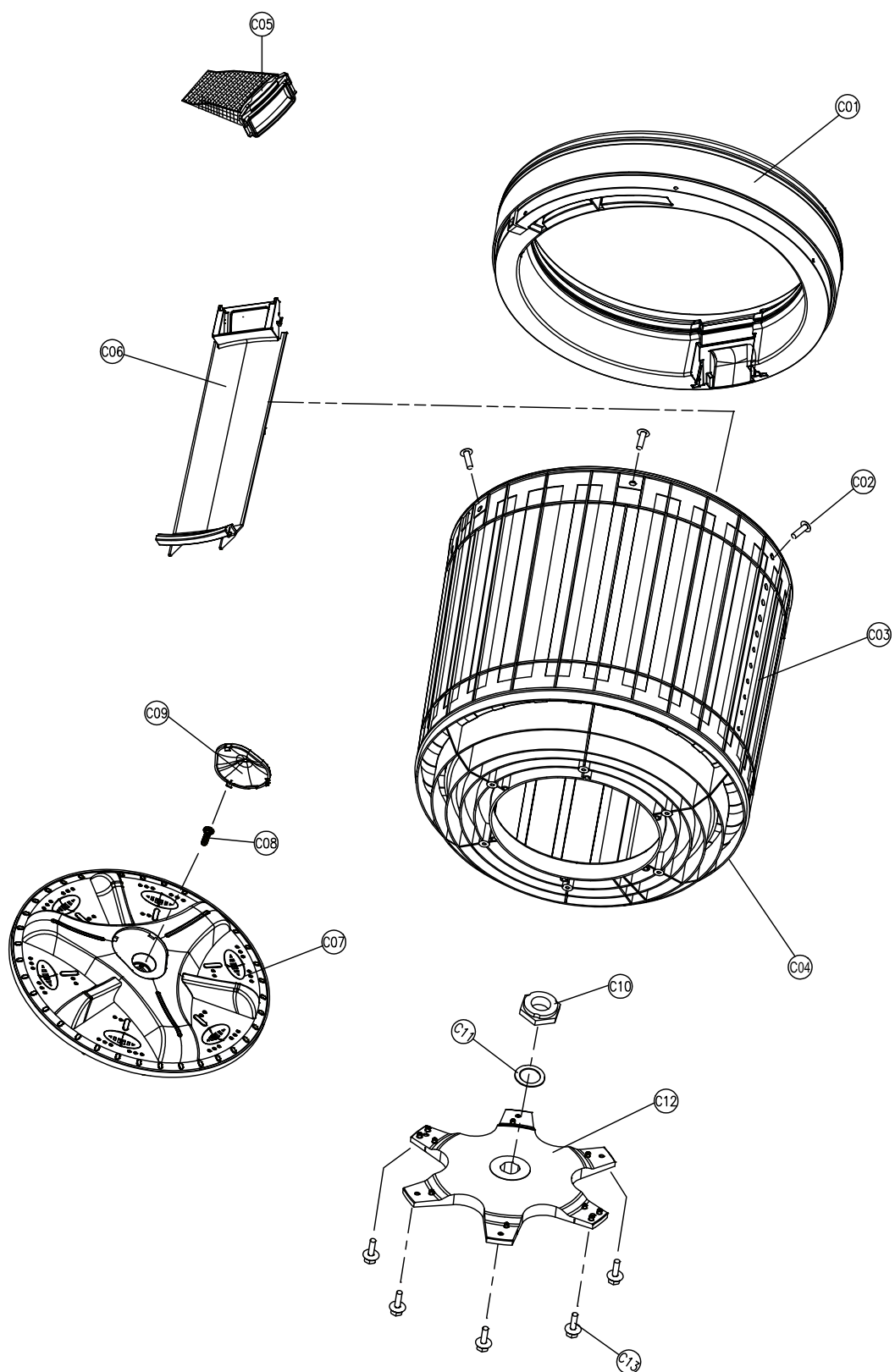
LOC.	PART NAME	PART CODE	SPECIFICATION	REMARK
A01	PANEL B	3614219200	ABS	5510,5511,6010,6011
		3614220200	ABS	5520,5521,6020,6021
A02	VALVE INLET(HOT)	3615403830	AC 220~240V/50Hz	5510,5511,6010,6011
		3615403810	(NP, N, MP, M)	5520,5521,6020,6021
		3615402130	AC 220V~60Hz	5510,5511,6010,6011
		3615402110	(LP, L)	5520,5521,6020,6021
		3615403630	AC 110~127V/60Hz	5510,5511,6010,6011
		3615403610	(TP, T, SP, S)	5520,5521,6020,6021
A03	VALVE INLET(COLD)	3615403710	AC 220~240V/50Hz	5510,5511,6010,6011
		3615403730	(NP, N, MP, M)	5520,5521,6020,6021
		3615402010	AC 220V60Hz	5510,5511,6010,6011
		3615402030	(LP, L)	5520,5521,6020,6021
		3615403510	AC 110~127V/60Hz	5510,5511,6010,6011
		3615403530	(TP, T, SP, S)	5520,5521,6020,6021
		3615403310	AC 110V/50, 60Hz	5510,5511,6010,6011
		3615403330	(J)	5520,5521,6020,6021
A04	SWITCH SAFETY AS	3619006360	DC 15V 10A	5510,5511,6010,6011
		3619043600		5520,5521,6020,6021
A05	PLATE T	3614515000	ABS	5510,5511,6010,6011
		3614515100	ABS	5520,5521,6020,6021
A06	NOZZLE DETERGENT	3618102000	PP	5510,5511,6010,6011
		3618102100	PP	5520,5521,6020,6021
A07	CASE DETERGENT	3611116500	ABS	5510,5511,6010,6011
		3611117200	ABS	5520,5521,6020,6021
A08	CAP REAR	3610902600	CR	
A09	HANDLE DOOR	3612603600	ABS	5510,5511,6010,6011
		3612604000	ABS	5520,5521,6020,6021
A10	DOOR SPRING	3615107700	SUS304	5510,5511,6010,6011
		3615108900	SUS304	5520,5521,6020,6021
A11	DOOR B	3611718400	ABS	5510,5511,6010,6011
		3611793300	ABS	5520,5521,6020,6021
A12	DOOR F	3611718300	ABS	5510,5511,6010,6011
		3611793200	ABS	5520,5521,6020,6021
A13	WINDOW DISPLAY	3615501700	ABS	5510,5511,6010,6011
		3615501800	ABS	5520,5521,6020,6021
A14	BRACKET	3610602900	PP	
A15	UNIT CAPACITOR AS	3618911700	9.4μF, CAN TYPE	AC 220~230V/50HZ
		3618911600	8.4μF, CAN TYPE	AC 240V/50Hz, AC 220V/60Hz
		3618912000	33.6μF, CAN TYPE	AC 110V/60Hz
		3618911900	30μF, CAN TYPE	AC 127V/60Hz
A16	SENER PRESSURE	3614800960	DC 5V CDN-D7	
A17	PANEL F	3614219100	ABS	5510,5511,6010,6011
		3614200100	ABS	5520,5521,6020,6021

LOC.	PART NAME	PART CODE	SPECIFICATION	REMARK
A18	PCB AS	PRPSSW8100	AC 220~230V/50Hz PUMP	5510,5511,6010,6011
		PRPSSW8200	AC 220~230V/50Hz N-PUMP	
		PRPSSW8101	AC 240V/50Hz PUMP	5510,5511,6010,6011
		PRPSSW8201	AC 240V/50Hz N-PUMP	
		PRPSSW8102	AC 220V/60Hz PUMP	5510,5511,6010,6011
		PRPSSW8202	AC 220V/60Hz N-PUMP	
		PRPSSW8103	AC 110V/60Hz PUMP	5510,5511,6010,6011
		PRPSSW8203	AC 110V/60Hz N-PUMP	
		PRPSSW8104	AC 127V/60Hz PUMP	5510,5511,6010,6011
		PRPSSW8204	AC 127V/60Hz N-PUMP	
		PRPSSW8205	AC 100V/50,60Hz	5510,5511,6010,6011
		PRPSSW8300	AC 220~230V/50Hz PUMP	5520,5521,6020,6021
		PRPSSW8400	AC 220~230V/50Hz N-PUMP	
		PRPSSW8301	AC 240V/50Hz PUMP	5520,5521,6020,6021
		PRPSSW8401	AC 240V/50Hz N-PUMP	
		PRPSSW8302	AC 220V/60Hz PUMP	5520,5521,6020,6021
		PRPSSW8402	AC 220V/60Hz N-PUMP	
		PRPSSW8303	AC 110V/60Hz PUMP	5520,5521,6020,6021
		PRPSSW8403	AC 110V/60Hz N-PUMP	
		PRPSSW8304	AC 127V/60Hz PUMP	5520,5521,6020,6021
		PRPSSW8404	AC 127V/60Hz N-PUMP	
		PRPSSW8405	AC 100V/50,60Hz	5520,5521,6020,6021
A19	ASSY BUBBLE	3618946300	AC 220~240V/50,60Hz	
		3918946400	AC 110~127V/50,60Hz	
A20	CORD POWER AS	3611304600	LFC-3R 3X0.75 2.3M GY	AUSTRALIA, ARGENTINA
		3611304700	F H05W 3X0.75 2.3M WH	CHILE
		3611304800	RW-300/500 3X0.75 2.3M	PR. CHINA
		3611304900	- VCTF 3X0.75 2.3M	INDIA
		3611305000	R VCTFK 2X1.25 2.3M GY	JAPAN
		3611305100	U VCTF 3X0.75 2.3M GY	KOREA
		3611305200	P VCTF 3X0.75 2.3M GY	KUWAIT
		3611305300	- VCTF 3X0.75 2.3M WH	MALAYSIA
		3611305400	- H05W-F 3X0.75 2.3M BK	SINGAPORE
		3611305500	A - VCTFK 2X0.75 2.3M GY	TAIWAN
		3611305600	F H05W 3X0.75 2.3M BK	USSR, HUNGARY
		3611305700	C SJT 3X18AWG 2.2M GY	PANAMA, USA
		3611305800	H05W-F 3X0.75 2.3M GY	SOUTH AFRICA
		3611305900	P VCTF 3.0.75 2.3M WH	OMAN
A21	HARNESS ASSY	3612754500	NON OPTION	PUMP
		3612754510	NON-BUBBLE PUMP	
		3612754520	NON-HOT INLET VALVE	
		3612754530	FULL OPTION	
		3612754600	NON OPTION	N-PUMP
		3612754610	NON-BUBBLE PUMP	
		3612754620	NON-HOT INLET VALVE	
		3612754630	FULL OPTION	



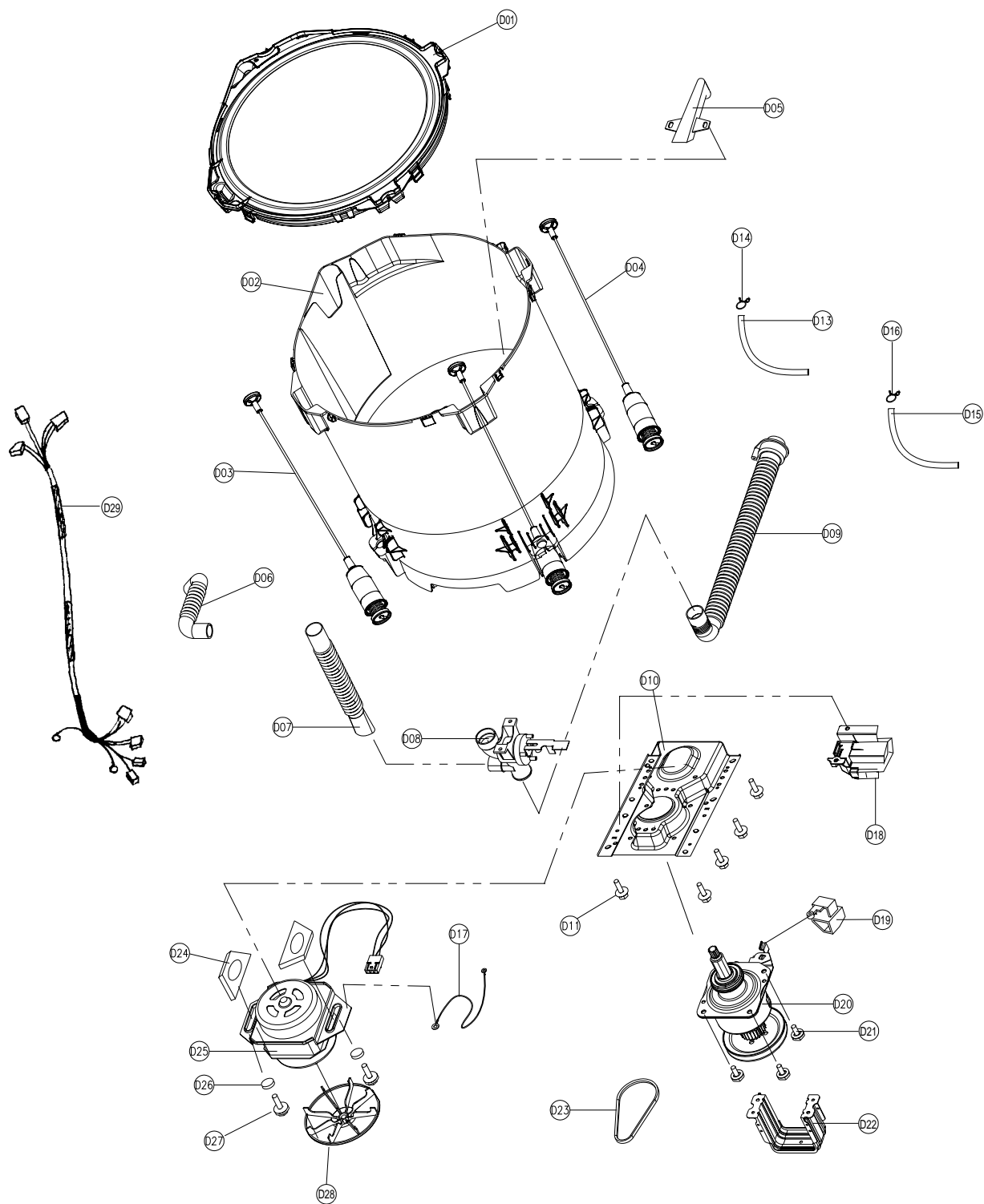
202

[illegible]



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[illegible]



§ Parts List

LOC.	PART NAME	PART CODE	SPECIFICATION	REMARK
D01	COVER TUB O	3611414600	PP	
D02	TUB O	3618807600	PP	
D03	SUSPENSION AS F	3619802300	DWF-5510NP	
D04	SUSPENSION AS B	3619802400	DWF-5510NP	
D05	NOZZLE BODY	3618101400	PP	
D06	HOSE DRAIN I	3613220600	TPE	PUMP
D07	HOSE OVERFLOW	3613220700	L=245	N-PUMP
D08	VALVE DRAIN AS	3615404020	5591D, VE	N-PUMP
D09	HOSE DRAIN I AS	3613221800	DWF-5510N	N-PUMP
D10	BASE	3610302900	SECEN 1.6t	
D11	SPECIAL BOLT BASE	4505E83100	6.5x23	
D12	HARNESS SUB AS	3612754900	SUB HARNESS+EARTH	PUMP
		3612754910	SUB HARNESS+EARTH	N-PUMP
D13	HOSE	4500D08220	ID=8, L=20	CAVITATION HOSE
D14	CLAMP	4500D08180	SWC BUBB PIE=8	
D15	HOSE	4500D08220	ID=8, L=30	BUBBLE HOSE
D16	CLAMP	4500D08180	SWC BUBB PIE=8	
D17	HARNESS EARTH INNER	3612755700	L=180	CHILE
D18	SYNCHRONOUS MOTOR	3966010270	AC 220~240V/50Hz	PUMP
		3966010260	AC 220~240V/50Hz	N-PUMP
		3966320370	AC 220V/60Hz	PUMP
		3966320360	AC 220V/60Hz	N-PUMP
		450ED45170	AC 110~127V/60Hz	PUMP
		450ED45176	AC 110~127V/60Hz	N-PUMP
		3966130260	AC 100V/50,60Hz	N-PUMP
D19	LINK BRAKE	3617801010	PP	PUMP
D20	GEAR MECHANISM	3617306000	GM-4900-KJ4XO	N-PUMP
		3617306010	GM-4900-KJ4PO	PUMP
D21	BOLT HEX	7640802011	6B-1 8x20 SW MFZN	
D22	PROTECTOR GEAR	3618301300	SBHG 1.6t	
D23	BELT V	4507D34020	M 20	50Hz
		4507B34020	M19.5	60Hz
D24	SPECIAL WASHER	4505E34030	PP	
D25	MOTOR CONDENSER	3964340100	AC 220~240V/50Hz	NP, N, MP, M
		3964340200	AC 220V/60Hz	LP, L
		3964340300	AC 10~127V/60Hz	TP, T, SP, S
D26	SPECIAL WASHER	4505E34040	PP	
D27	BOLT HEX	7650802511	6B-1 8X25 HS MFZN	
D28	PULLY MOTOR AS	3618401420	M-TYPE DS=10 DP=53.0	50Hz
		3618402800	M-TYPE DS=10 DP=48.5	60Hz
D29	HARNESS SUB AS	3612754900	SUB HARNESS + EARTH + PUMP	PUMP
		3612754910	SUB HARNESS + EARTH	N-PUMP

DAEWOO

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PRINTED DATE: JUN.2000

S/M NO. : WF750SE001